In the Abstract:

Please accept the following abstract of the disclosure (since no abstract was provided with the English translation of the PCT disclosure):

ABSTRACT OF THE DISCLOSURE

The method tests the suitability of an optical material having a radiation-induced absorption, especially of an alkali or alkaline earth halide, for production of an optical element exposed to high-energy irradiation. The method includes pre-irradiating the optical material with laser radiation until rapid damage induced in the optical material with the laser radiation is saturated; subsequently measuring fluorescence of the optical material during and/or immediately after irradiating the optical material with excitation radiation and determining the non-intrinsic fluorescence and intrinsic fluorescence present in the measured fluorescence. Suitability may be preferably determined according to a ratio of the amount of non-intrinsic fluorescence to intrinsic fluorescence. A device for performing the method including a barrier device for blocking scattered excitation radiation is also provided.